CLAIMS:

- A nasal spray formulation comprising:
 a Dead Sea salt and mineral composition in aqueous solution.
- 2. The formulation of claim 1 where the aqueous solution is sterile.
- 3. The formulation of claim 1 defined further as containing a buffer.
- 4. The formulation of claim 3 where the buffer is to maintain a pH of from about 6.5 to about 7.5.
- 5. The formulation of claim 1 where the composition is from about 5.0 to about 50.0 grams per liter of aqueous solution.
- 6. The formulation of claim 1 where the composition is about 25.0 grams per liter of aqueous solution.
- 7. The formulation of claim 1 where the composition is essentially free of noxious organic impurities.

- 8. The formulation of claim 1 wherein said Dead Sea salt and mineral composition is further defined as including about 31-35% (wt/wt) magnesium halide, about 24-26% (wt/wt) potassium halide, about 4-8% (wt/wt) sodium halide, about 0.4-0.6% (wt/wt) calcium halide, the halide being about 0.3 -0.6% (wt/wt) bromide and about 99.4-99.7% (wt/wt) chloride.
- 9. A method of treating symptoms of adverse conditions affecting the nasal cavity and passageway, the method comprising the steps of identifying patient with an adverse nasal cavity conditions;
 - a. obtaining a premixed formulation containing a Dead Sea salt and mineral composition in aqueous solution; and
 - b. administering an aerosol formed from the formulation at least 1 time a day as symptoms of the patient persist.
- 10. The method of claim 9 wherein said conditions include rhinitis, sinusitis, epistaxis and post-surgical irritation.
- 11. The method of claim 9 wherein said Dead Sea salt and mineral composition is in sterile aqueous solution.
- 12. The method of claim 9 wherein said Dead Sea salt and mineral composition in aqueous solution contains a buffer.

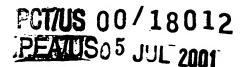
- 13. The method of claim 12 wherein the buffer is to maintain a pH from about 6.5 to about 7.5.
- 14. The method of claim 9 wherein said Dead Sea salt and mineral composition in aqueous solution is from about 5.0 to about 50.0 grams of salt per liter of said aqueous solution.
- 15. The method of claim 9 wherein said Dead Sea salt and mineral composition in aqueous solution is about 12.0 grams of salt per 480 cc of said aqueous solution.
- 16. The method of claim 9 wherein said Dead Sea salt and mineral composition is further defined as including about 31-35% (wt/wt) magnesium halide, about 24-26% (wt/wt) potassium halide, about 4-8% (wt/wt) sodium halide, about 0.4-0.6% (wt/wt) calcium halide, the halide being about 0.3 -0.6% (wt/wt) bromide and about 99.4-99.7% (wt/wt) chloride.
- 17. The method of claim 9 wherein said Dead Sea salt and mineral composition in aqueous solution is essentially free of organic impurities.
- 18. A method for treating symptoms of adverse conditions of the nasal cavity and passageway with a Dead Sea salt and mineral composition in aqueous solution, the method comprising the steps of obtaining a premixed formulation containing a Dead Sea salt mineral composition in aqueous solution; and self administering an aerosol formed from said formulations nasally at least 1 time a day as symptoms persist.

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- 19. The method for claim 18 wherein said conditions include rhinitis, sinusitis, epistaxis and post-surgical irritation.
- 20. The method of claim 18 wherein a Dead Sea salt mineral composition in aqueous solution is from about 5.0 to about 50.0 grams per liter of said aqueous solution.
- 21. The method of claim 18 wherein a Dead Sea salt mineral composition is in sterile aqueous solution.
- 22. The method of claim 18 wherein a Dead Sea salt mineral composition in aqueous solution contains a buffer.
- 23. The method of claim 22 wherein the buffer is to maintain a pH of from about 6.5 to about 7.5.
- 24. The method of claim 18 wherein a Dead Sea salt mineral composition in aqueous solution is about 25.0 grams per liter of said aqueous solution.
- 25. The method of claim 18 wherein said Dead Sea salt and mineral composition is further defined as including about 31-35% (wt/wt) magnesium halide, about 24-26% (wt/wt) potassium halide, about 4-8% (wt/wt) sodium halide, about 0.4-0.6% (wt/wt) calcium halide, the halide being about 0.3 -0.6% (wt/wt) bromide and about 99.4-99.7% (wt/wt) chloride.

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- 26. The method of claim 18 wherein a Dead Sea salt mineral composition in aqueous solution is essentially free of noxious, organic impurities.
- 27. A method of producing a nasal spray formulation comprising Dead Sea salt in aqueous solution, the method comprising dissolving Dead Sea salt in aqueous solution and storing this premixed formulation in a container suitable for aerosol nasal administration.
- 28. The method of claim 27 wherein a Dead Sea salt mineral composition in aqueous solution is from about 0.5 to about 5 grams per liter of said aqueous solution.
- 29. The method of claim 27 wherein Dead Sea salt mineral composition in aqueous solution is about 25.0 grams per liter of said aqueous solution.
- 30. The method of claim 27 wherein Dead Sea salt mineral composition is in sterile aqueous solution.
- 31. The method of claim 27 wherein Dead Sea salt mineral composition in sterile aqueous solution contains a buffer.
- 32. The method of claim 31 wherein the buffer is to maintain a pH of from about 6.5 to about 7.5.



- 33. The method of claim 27 wherein said Dead Sea salt and mineral composition is further defined as including about 31-35% (wt/wt) magnesium halide, about 24-26% (wt/wt) potassium halide, about 4-8% (wt/wt) sodium halide, about 0.4-0.6% (wt/wt) calcium halide, and halide being about 0.3 -0.6% (wt/wt) bromide and about 99.4-99.7% (wt/wt) chloride.
- 34. The method of claim 27 wherein a Dead Sea salt mineral composition in aqueous solution is essentially free of noxious, organic impurities.
- 35. A nasal spray formulation comprising a Dead Sea salt and mineral composition having about 31-35% (wt/wt) magnesium halide, about 24-26% (wt/wt) potassium halide, about 4-8% (wt/wt) sodium halide, about 0.4-0.6% (wt/wt) calcium halide, the halide being about 0.3-0.6% (wt/wt) bromide and about 99.4-99.7% (wt/wt) chloride, where said Dead Sea salt and mineral composition contains a buffer maintaining a pH from about 6.5 to 7.5 and is from about 5.0 to about 50.0 grams per liter of sterile aqueous solution and is essentially free of noxious, organic impurities.